Fig. 1

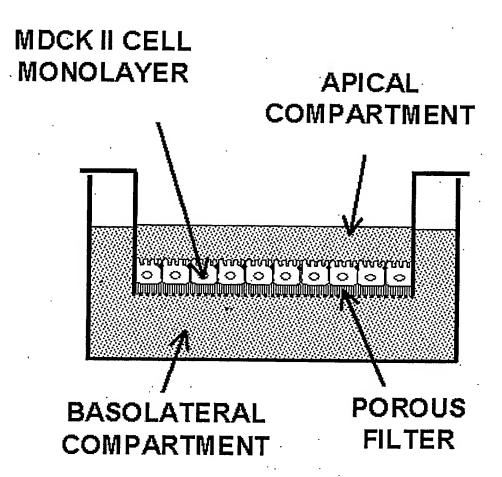


Fig. 2

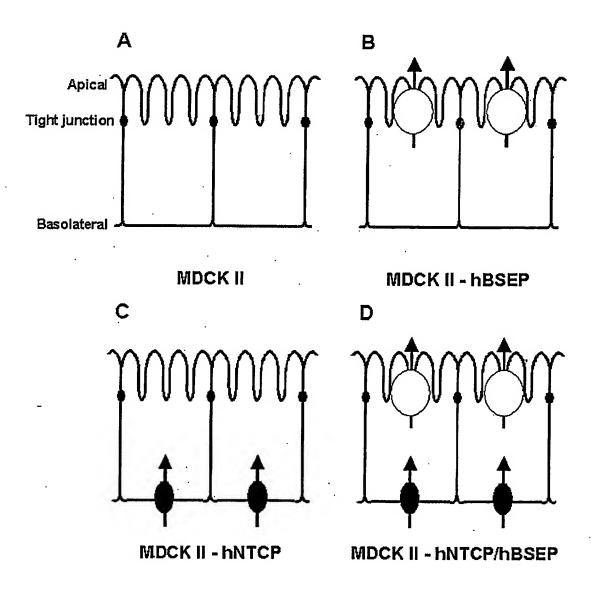


Fig 3

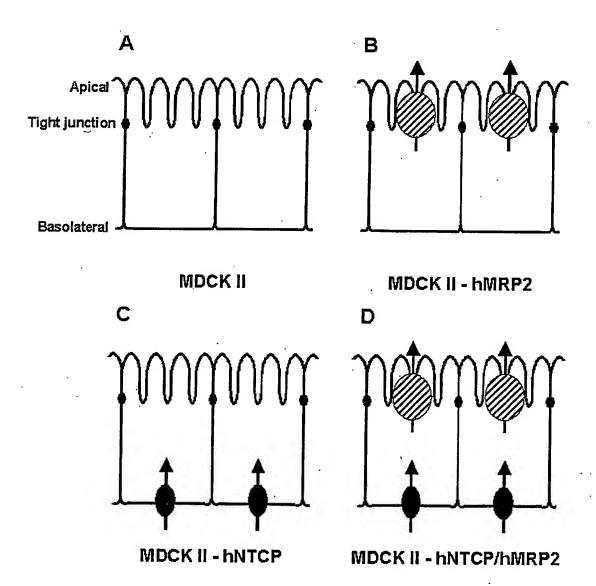


Fig. 4



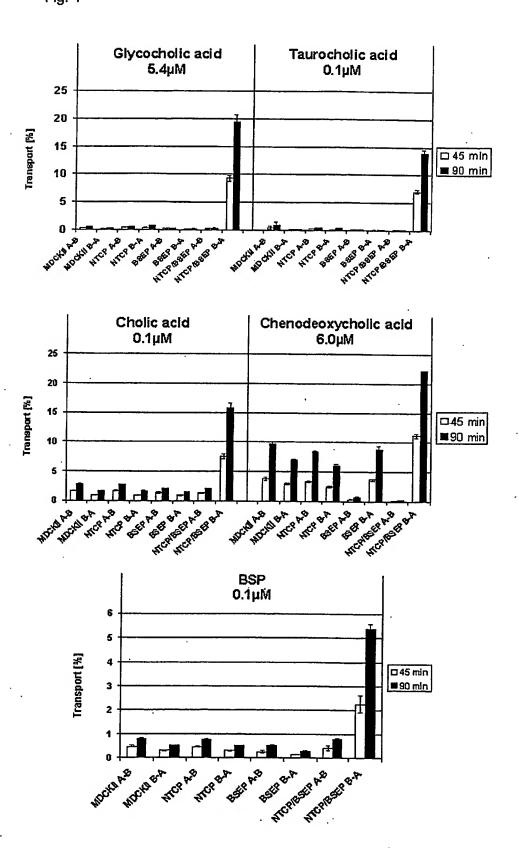


Fig. 5

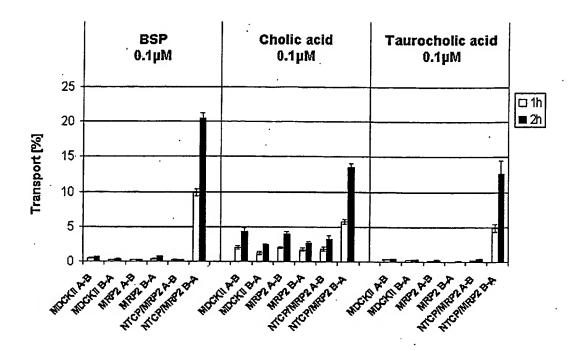


Fig. 6

Fig. 7

ATGTCTGACTCAGTAATTCTTCGAAGTATAAAGAAATTTGGAGAGGAGAATGATGGTTTTGAGTCAGATAAATCATATAA TAATGATAAGAAATCAAGGTTACAAGATGAGAAGAAGGTGATGGCGTTAGAGTTGGCTTCTTTCAATTGTTTCGGTTTT CTCATTTTTGGCACAATGACAGATGTTTTTATTGACTACGACGTTGAGTTACAAGAACTCCAGGATTCCAGGAAAAGCATG TGTGAATAACACCATTGTATGGACTAACAGTTCCCTCAACCAGAACATGACAAATGGAACACGTTGTGGGTTGCTGAACA ${\tt TCGAGAGCGAAATGATCAAATTTGCCAGTTACTATGCTGGAATTGCTGTCGCAGTACTTATCACAGGATATATTCAAATA}$ $\tt TGCTTTTGGGTCATTGCCGCAGCTCGTCAGATACAGAAAATGAGAAAATTTTACTTTAGGAGAATAATGAGAATGGAAAT$ AGGGTGGTTTGACTGCAATTCAGTGGGGGAGCTGAATACAAGATTCTCTGATGATATTAATAAAATCAATGATGCCATAG $\tt CTGACCAAATGGCCCTTTTCATTCAGCGCATGACCTCGACCATCTGTGGTTTCCTGTTGGGATTTTTCAGGGGTTGGAAA$ CTGACCTTGGTTATTATTTCTGTCAGCCCTCTCATTGGGATTGGAGCCACCCATTGGTCTGAGTGTGCCAAGTTTAC GGACTATGAGCTGAAGGCCTATGCCAAAGCAGGGGTGGTGGCTGATGAAGTCATTTCATCAATGAGAACAGTGGCTGCTT TTGGTGGTGAGAAAGGGTTGAAAGGTATGAGAAAATCTTGTGTTCGCCCAGCGTTGGGGAATTAGAAAAGGAATA GTGATGGGATTCTTTACTGGATTCGTGTGTGTCTCATCTTTTTGTGTTATGCACTGGCCTTCTGGTACGGCTCCACACT TGTCCTGGATGAAGGAGAATATACACCAGGAACCCTTGTCCAGATTTTCCTCAGTGTCATAGTAGGAGCTTTAAATCTTG GCAATGCCTCTCCTTGTTTGGAAGCCTTTGCAACTGGACGTGCAGCAGCCACCAGCATTTTTGAGACAATAGACAGGAAA CCCATCATTGACTGCATGTCAGAAGATGGTTACAAGTTGGATCGAATCAAGGGTGAAATTGAATTCCATAATGTGACCTT ${\tt CCATTATCCTTCCAGACCAGAGGTGAAGATTCTAAATGACCTCAACATGGCCATTAAACCAGGGGAAATGACAGCTCTGG}$ TAGGACCCAGTGGAGCTGGAAAAAGTACAGCACTGCAACTCATTCAGCGATTCTATGACCCCTGTGAAGGAATGGTGACC $\tt GTGGATGGCCATGACATTCGCTCTCTTAACATTCAGTGGCTTAGAGATCAGATTGGGATAGTGGAGCAAGAGCCAGTTCT$ GTTCTCTACCACCATTGCAGAAAATATTCGCTATGGCAGAGAGATGCAACAATGGAAGACATAGTCCAAGCTGCCAAGG AGGCCAATGCCTACAACTTCATCATGGACCTGCCACAGCAATTTGACACCCTTGTTGGAGAAGGAGGAGGCCAGATGAGTGGTGGCCAGAAACAAAGGGTAGCTATCGCCAGAGCCCTCATCCGAAATCCCAAGATTCTGCTTTTGGACATGGCCACCTC AGCTCTGGACAATGAGAGTGAAGCCATGGTGCAAGAAGTGCTGAGTAAGATTCAGCATGGGCACACAATCATTTCAGTTG $\tt CTCATCGCTTGTCTACGGTCAGAGCTGCAGATACCATCATTGGTTTTGAACATGGCACTGCAGTGGAAAGAGGGACCCAT$ GAAGAATTACTGGAAAGGAAAGGTGTTTACTTCACTCTAGTGACTTTGCAAAGCCAGGGAAATCAAGCTCTTAATGAAGA CCATCCGGCAACGCTCCAAGTCTCAGCTTTCTTACCTGGTGCACGAACCTCCATTAGCTGTTGTAGATCATAAGTCTACC TATGAAGAAGATAGAAAGGACAAGGACATTCCTGTGCAGGAAGAAGTTGAACCTGCCCCAGTTAGGAGGATTCTGAAATT CAGTGCTCCAGAATGGCCCTACATGCTGGTAGGGTCTGTGGGTGCAGCTGTGAACGGGACAGTCACACCCTTGTATGCCT TTTTATTCAGCCAGATTCTTGGGACTTTTTCAATTCCTGATAAAGAGGAACAAAGGTCACAGATCAATGGTGTGTGCCTA $\tt CTTTTTGTAGCAATGGGCTGTGTATCTCTTTTCACCCAATTTCTACAGGGATATGCCTTTGCTAAATCTGGGGAGCTCCT$ AACAAAAAGGCTACGTAAATTTGGTTTCAGGGCAATGCTGGGGCAAGATATTGCCTGGTTTGATGACCTCAGAAATAGCC $\tt CTGGAGCATTGACAAGACTTGCTACAGATGCTTCCCAAGTTCAAGGGGGCTGCCGGCTCTCAGATCGGGATGATAGTC$ AATTCCTTCACTAACGTCACTGTGGCCATGATCATTGCCTTCTCCTTTAGCTGGAAGCTGAGCCTGGTCATCTTGTGCTT $\tt CTTCCCCTTCTTGGCTTTATCAGGAGCCACACAGACCAGGATGTTGACAGGATTTGCCTCTCGAGATAAGCAGGCCCTGG$ AGATGGTGGGACAGATTACAAATGAAGCCCTCAGTAACATCCGCACTGTTGCTGGAAATGGAAAGGAGAGGCGGTTCATT ${\tt GAAGCACTTGAGACTGAGCTGGAGAAGCCCTTCAAGACAGCCATTCAGAAAGCCAATATTTACGGATTCTGCTTTGCCTT}$ TGCCCAGTGCATCATGTTTATTGCGAATTCTGCTTCCTACAGATATGGAGGTTACTTAATCTCCAATGAGGGGCTCCATT TATGCAAAAGCTAAAATATCAGCTGCACGCTTTTTTCAACTGCTGGACCGACAACCCCCAATCAGTGTATACAATACTGC \cdot AGGTGAAAAATGGGACAACTTCCAGGGGAAGATTGATTTTGTTGATTGTAAATTTACATATCCTTCTCGACCTGACTCGC

AAGTTCTGAATGGTCTCTCAGTGTCGATTAGTCCAGGGCAGACACTGGCGTTTGTTGGGAGCAGTGGATGGCAAAAAGC
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TCAAGTATGGAGACAACACCAAAGAAATTCCCATGGAAAGAGTCATAGCAGCTGCAAAACAGGCTCAGCTGCATGATTTT
GTCATGTCACTCCCAGAGAAATATGAAACTAACGTTGGGTCCCAGGGGTCTCAACTCTCTAGAGGGGAGAAACAACGCAT
TGCTATTGCTCGGGCCATTGTACGAGAAATCCTAAAATCTTGCTACTAGATGAAGCCACTTCTGCCTTAGACACAGAAAGTG
AAAAGACGGTGCAGGTTGCTCTAGACAAAGCCAGAGAGGGTCGGACCTGCATTGTCCATCGCCTTGTCCACCATC
CAGAACGCGGATATCATTGCTGCTATGGCACAGGGGGTGGTGATTGAAAAAGGGGACCCATGAAGAACTGATGGCCCAAAA
AGGAGCCTACTACAAACTAGTCACCACTGGATCCCCCATCAGTTGA

Fig. 8

 ${\tt AGTCCAGGAATCATGCTGGAAGTTCTGCAACTCTACTTTTTGGAATTCCTCATTCCTGGACAGTCCGGAGGCAGACCT}$ ${\tt GCCACTTTGTTTTGAGCAAACTGTTCTGGTGTGGATTCCCTTGGGCTTCCTATGGCTCCTGGCCCCCTGGCAGCTTCTCCC}$ ACGTGTATAAATCCAGGACCAAGAGATCCTCTACCACCAAACTCTATCTTGCTAAGCAGGTATTCGTTGGTTTTCTTCTT ATTCTAGCAGCCATAGAGCTGGCCCTTGTACTCACAGAAGACTCTGGACAAGCCACAGTCCCTGCTGTTCGATATACCAA TCCAAGCCTCTACCTAGGCACATGGCTCCTGGTTTTGCTGATCCAATACAGCAGACAATGGTGTGTACAGAAAAACTCCT GGTTCCTGTCCCTATTCTGGATTCTCTCGATACTCTGTGGCACTTTCCAATTTCAGACTCTGATCCGGACACTCTTACAG GGTGACAATTCTAATCTAGCCTACTCCTGCCTGTTCTTCATCTCCTACGGATTCCAGATCCTGATCCTGATCTTTTCAGC ATTTTCAGAAAATAATGAGTCATCAAATAATCCATCATCCATAGCTTCATTCCTGAGTAGCATTACCTACAGCTGGTATG ACAGCATCATTCTGAAAGGCTACAAGCGTCCTCTGACACTCGAGGATGTCTGGGGAAGTTGATGAAGAGATGAAAACCAAG GAGCTCCCAGCAGAACTCTGGAGCCAGGCTGCCTGGCTTGAACAAGAATCAGAGTCAAAGCCAAGATGCCCTTGTCCTGG AAGATGTTGAAAAGAAAAAAAAGATCTGGGACCAAAAAAGATGTTCCAAAATCCTGGTTGATGAAGGCTCTGTTCAAA ACTITCTACATGGTGCTCCTGAAATCATTCCTACTGAAGCTAGTGAATGACATCTTCACGTTTGTGAGTCCTCAGCTGCT GAAATTGCTGATCTCCTTTGCAAGTGACCGTGACACATATTTGTGGATTGGATATCTCTGTGCAATCCTCTTATTCACTG ${\tt CGGCTCTCATTCAGTCTTTCTGCCTTCAGTGTTATTTCCAACTGTGCTTCAAGCTGGGTGTAAAAGTACGGACAGCTATC}$ GATGTCTGTGGATGCCCAGAAGCTCATGGATGTGACCAACTTCATGCACATGCTGTGGTCAAGTGTTCTACAGATTGTCT TATCTATCTTCTTCCTATGGAGAGAGTTGGGACCCTCAGTCTTAGCAGGTGTTGGGGTGATGGTGCTTGTAATCCCAATT AATGCGATACTGTCCACCAAGAGTAAGACCATTCAGGTCAAAAATATGAAGAATAAAGACAAACGTTTAAAGATCATGAA AGAAAGAGCTCAAGAACCTGCTGGCCTTTAGTCAACTACAGTGTGTAGTAATATTCGTCTTCCAGTTAACTCCAGTCCTG GTATCTGTGGTCACATTTTCTGTTTATGTCCTGGTGGATAGCAACAATATTTTGGATGCACAAAAGGCCTTCACCTCCAT TACCCTCTTCAATATCCTGCGCTTTCCCCTGAGCATGCTTCCCATGATGATCTCCTCCATGCTCCAGGCCAGTGTTTCCA CAGAGCGGCTAGAGAAGTACTTGGGAGGGGATGACTTGGACACATCTGCCATTCGACATGACTGCAATTTTGACAAAGCC ATGCAGTTTTCTGAGGCCTCCTTTACCTGGGAACATGATTCGGAAGCCACAGTCCGAGATGTGAACCTGGACATTATGGC AGGCCAACTTGTGGCTGTGATAGGCCCTGTCGGCTCTGGGAAATCCTCCTTGATATCAGCCATGCTGGGAGAAATGGAAA ATGTCCACGGGCACATCACCATCAAGGGCACCACTGCCTATGTCCCACAGCAGTCCTGGATTCAGAATGGCACCATAAAG GACAACATCCTTTTTGGAACAGAGTTTAATGAAAAGAGGTACCAGCAAGTACTGGAGGCCTGTGCTCTCCCCAGACTT GGAAATGCTGCCTGGAGGAGATTTGGCTGAGATTGGAGAGAGGGTATAAATCTTAGTGGGGGTCAGAAGCAGCGGATCA $\tt CTTTCTTCCTCAAGTGGATGAGATTGTAGTTCTGGGGAATGGAACAATTGTAGAGAAAGGATCCTACAGTGCTCTCCTGG$ ${\tt CCAAAAAAGGAGAGTTTGCTAAGAATCTGAAGACATTTCTAAGACATACAGGCCCTGAAGAGGAAGCCACAGTCCATGAT}$ GGCAGTGAAGAAGAAGACGATGACTATGGGCTGATATCCAGTGTGGAAGAGATCCCCGAAGATGCAGCCTCCATAACCAT CCTTGAAAACTCGGAATGTGAATAGCCTGAAGGAAGAACGAAGAACTAGTGAAAGGACAAAAACTAATTAAGAAGGAATTC ATAGAAACTGGAAAGGTGAAGTTCTCCATCTACCTGGAGTACCTACAAGCAATAGGATTGTTTTCGATATTCTTCATCAT ${\tt CCTTGCGTTTGTGATGAATTCTGTGGCTTTATTGGATCCAACCTCTGGCTCAGTGCTTGGACCAGTGACTCTAAAATCT}$. TATCCTTCGAGCACCTATGAGATTTTTTGACACACCCCACAGGCCGGATTGTGAACAGGTTTGCCGGCGATATTTCCA

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 ${\tt TACCTCCCGCCAGCTGAGGCGTCTGGACTCTGTCACCAGGTCCCCAATCTACTCTCACCTCAGCGAGACCGTATCAGGTT}$ $\tt GTCTTTTCCTGGATCACCTCCAACAGGTGGCTTGCAATTCGCCTGGAGCTGGTTTGGGAACCTGACTGTCTTTTTCAGC$ $\tt CTTGATGATGGTTATTTATAGAGATACCCTAAGTGGGGACACTGTTGGCTTTGTTCTGTCCAATGCACTCAATATCACAC$ AAACCCTGAACTGGCTGGTGAGGATGACATCAGAAATAGAGACCAACATTGTGGCTGTTGAGCGAATAACTGAGTACACA AAAGTGGAAAATGAGGCACCCTGGGTGACTGATAAGAGGCCTCCGCCAGATTGGCCCAGCAAAGGCAAGATCCAGTTTAA CAACTACCAAGTGCGGTACCGACCTGAGCTGGATCTGGTCCTCAGAGGGATCACTTGTGACATTGGTAGCATGGAGAAGA TTGGTGTGGTGGGCAGGACAGGAGCTGGAAAGTCATCCCTCACAAACTGCCTCTTCAGAATCTTAGAGGCTGCCGGTGGT $\tt CCCCATCCTGTTCTCTGGAAGCCTGAGGATGAATCTCGACCCTTTCAACAACTACTCAGATGAGGAGATTTGGAAGGCCT$ $\tt CTGAGCATAGGCCAGAGGCAGCTGCTGGGCAGGGCTCTGCTTCGGAAATCCAAGATCCTGGTCCTGGATGAGGC$ ${\tt CACTGCTGCGGTGGATCTAGAGACAGACATCCATTCAGACGACCATCCAAAACGAGTTCGCCCACTGCACAGTGATCA}$ AGCCCTGAAGAACTGCTACAAATCCCTGGACCCTTTTACTTTATGGCTAAGGAAGCTGGCATTGAGAATGTGAACAGCAC AAAATTCTAG

Fig. 9

GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTAT CTGCTCCCTGCTTGTGTGTGTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACAACAAGGCAAGGCTTGACCGA CAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCGATGTACGGGCCAGATATACGCGTTGACATT GATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAA ${\tt AACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGT}$ ATCATATGCCAAGTACGCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTA ${\tt TGGGACTTTCCTACTTGGCAGTACATCTACTCATCGCTATTACCCATGGTGATGCGGTTTTGGCAGTACATCAA}$ AAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAG GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAG GGAGACCCAAGCTGGCTAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGATCCCAGGAGGATGGAGGCCCACAACGCGT $\tt CTGCCCCATTCAACTTCACCCTGCCACCCAACTTTGGCAAGCGCCCCACAGACCTGGCACTGAGCGTCATCCTGGTGTTC$ ATGTTGTTCTTCATCATGCTCTCGCTGGGCTGCACCATGGAGTTCAGCAAGATCAAGGCTCACTTATGGAAGCCTAAAGG GCTGGCCATCGCCCTGGTGGCACAGTATGGCATCATGCCCCTCACGGCCTTTGTGCTGGGCAAGGTCTTCCGGCTGAAGA ACATTGAGGCACTGGCCATCTTGGTCTGTGGCTGCTCACCTGGAGGGAACCTGTCCAATGTCTTCAGTCTGGCCATGAAG GGGGACATGAACCTCAGCATTGTGATGACCACCTGCTCCACCTTCTGTGCCCTTGGCATGATGCCTCCTCCTCCTGTACAT CTACTCCAGGGGGATCTATGATGGGGACCTGAAGGACAAGGTGCCCTATAAAGGCATCGTGATATCACTGGTCCTGGTTC ATCATTCTCTTGTGCAGTGTGGCCGTCACAGTTCTCTCTGCCATCAATGTGGGGAAGAGCATCATGTTTGCCATGACACC ACTCTTGATTGCCACCTCCTCCTGATGCCTTCTATTGGCTTTCTGCTGGGTTATGTTCTCTCTGCTCTCTTCTGCCTCA ATGGACGGTGCAGACGCACTGTCAGCATGGAGACTGGATGCCAAAATGTCCAACTCTGTTCCACCATCCTCAATGTGGCC TTTCCACCTGAAGTCATTGGACCACTTTTCTTCTTTCCCCTCCTCACATGATTTTCCAGCTTGGAGAAGGGCTTCTCCT CATTGCCATATTTTGGTGCTATGAGAAATTCAAGACTCCCAAGGATAAAACAAAAATGATCTACACAGCTGCCACAACTG AAGAAACAATTCCAGGAGCTCTGGGAAATGGCACCTACAAAGGGGAGGACTGCTCCCCTTGCACAGCCTAGCCCTTCTAG CTTCCTTGACCCTGGAAGGTGCCACTCCCACTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGG TGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAGGGGGAGGATTGGGAAGACAATAGCAGGCATGCTGGGGA TGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGCTCTAGGGGGGTATCCCCACGCGCCCTGTAGCGGCG CATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCT TTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATT TAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGG TTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATC TCGGTCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATT TAACGCGAATTAATTCTGTGGAATGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGCAGCAGTATGCA ATCTCAATTAGTCAGCAACCATAGTCCCGCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCT CCGCCCATGGCTGACTAATTTTTTTTTTTTTTTTTGCAGAGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCCAGAAGTAGTG AGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGATCAAGAGA ${\tt CAGGATGAGGATCGTTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTC}$

 ${\tt GGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGGCGCCCGGTTCT}$ GATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGA ATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTCGCCAGGCTCAAGGCGCGCATGCCCGAC GGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCAT CGACTGTGGCCGGCTGGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCG GCGAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATCGCCTTCTATCGCCTTCTT TCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGA TCTCATGCTGGAGTTCTTCGCCCACCCCAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAA ATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGT ATACCGTCGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAT TGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGGGGGAGAGGC AGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGC AAAAGGCCAGGAACCGTAAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAAT $\tt CTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCT$ ${\tt CACGCTGTAGGTATCTCAGTTCGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGAC}$ $\tt CGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCCACTGG$ TAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA GAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAA ACCACCGCTGGTAGCGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGAT CTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCT CAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCGTCGTGTA GATAACTACGATACGGGAGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGCTCAG ATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTTGCGCAACGTTGTTGCCATTGCTACAGGCAT CGTGGTGTCACGCTCGTTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCA GTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAA GTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCA GAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGT TCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGG AAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCCTTTTTCAATATTATT GAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCG CGCACATTTCCCCGAAAAGTGCCACCTGACGTC

Fig. 10

GACGGATCGGGAGATCTCCCGATCCCCTATGGTCGACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTAT $\tt CTGCTCCCTGCTTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACAACAAGGCAAGGCTTGACCGA$ GATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAA $\tt CTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGT$ AACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGT ATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTA TGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAA AAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAG GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAG GGAGACCCAAGCTGGCTTAGACTTAAACTTAAGCTATCACAAGTTTGTACAAAAAAGCAGGCTTAGGAATGTCTGACTCA GTAATTCTTCGAAGTATAAAGAAATTTGGAGAGAGAATGATGGTTTTGAGTCAGATAAATCATATAATGATAAGAA ATCAAGGTTACAAGATGAGAAGAAGGTGATGGCGTTAGAGTTGGCTTCTTTCAATTGTTTCGGTTTTCTTCATCAACTG ACAATGACAGATGTTTTTATTGACTACGACGTTGAGTTACAAGAACTCCAGGATTCCAGGAAAAGCATGTGAATAACAC CATTGTATGGACTAACAGTTCCCTCAACCAGAACATGACAAATGGAACACGTTGTGGGTTGCTGAACATCGAGAGCGAAA TGATCAAATTTGCCAGTTACTATGCTGGAATTGCTGTCGCAGTACTTATCACAGGATATATTCAAATATGCTTTTGGGTC ATTGCCGCAGCTCGTCAGATACAGAAAATGAGAAAATTTTACTTTAGGAGAATAATGAGAATGGAAATAGGGTGGTTTGA CTGCAATTCAGTGGGGGGGCTGAATACAAGATTCTCTGATGATATTAATAAAATCAATGATGCCATAGCTGACCAAATGG CCCTTTTCATTCAGCGCATGACCTCGACCATCTGTGGTTTCCTGTTGGGATTTTTCAGGGGTTGGAAACTGACCTTGGTT ATTATTTCTGTCAGCCCTCTCATTGGGATTGGAGCAGCCACCATTGGTCTGAGTGTCCAAGTTTACGGACTATGAGCT AAAGAGAGGTTGAAAAGGTATGAGAAAAATCTTGTGTTCGCCCAGCGTTGGGGAATTAGAAAAGGAATAGTGATGGGATTC TTTACTGGATTCGTGTGGTGTCTCATCTTTTTGTGTTATGCACTGGCCTTCTGGTACGGCTCCACACTTGTCCTGGATGA AGGAGAATATACACCAGGAACCCTTGTCCAGATTTTCCTCAGTGTCATAGTAGGAGCTTTAAATCTTGGCAATGCCTCTC CTTGTTTGGAAGCCTTTGCAACTGGACGTGCAGCAGCCACCAGCATTTTTGAGACAATAGACAGGAAACCCATCATTGAC TGCATGTCAGAAGATGGTTACAAGTTGGATCGAATCAAGGGTGAAATTGAATTCCATAATGTGACCTTCCATTATCCTTC CAGACCAGAGGTGAAGATTCTAAATGACCTCAACATGGCCATTAAACCAGGGGAAATGACAGCTCTGGTAGGACCCAGTG GAGCTGGAAAAAGTACAGCACTGCAACTCATTCAGCGATTCTATGACCCCTGTGAAGGAATGGTGACCGTGGATGGCCAT GACATTCGCTCTCTTAACATTCAGTGGCTTAGAGATCAGATTGGGATAGTGGAGCAAGAGCCAGTTCTGTTCTCTACCAC CATTGCAGAAAATATTCGCTATGGCAGAGAAGATGCAACAATGGAAGACATAGTCCAAGCTGCCAAGGAGGCCAATGCCT ACAACTTCATCATGGACCTGCCACAGCAATTTGACACCCTTGTTGGAGAAGGAGGAGGCCAGATGAGTGGTGGCCAGAAA CAAAGGTAGCTATCGCCAGAGCCCTCATCCGAAATCCCAAGATTCTGCTTTTGGACATGGCCACCTCAGCTCTGGACAA TGAGAGTGAAGCCATGGTGCAAGAAGTGCTGAGTAAGATTCAGCATGGGCACACAATCATTTCAGTTGCTCATCGCTTGT CTACGGTCAGAGCTGCAGATACCATCGTTTTGAACATGGCACTGCAGTGGAAAGAGGGACCCATGAAGAATTACTG GAAAGGAAAGGTGTTTACTTCACTCTAGTGACTTTGCAAAGCCAGGGAAATCAAGCTCTTAATGAAGAGGACATAAAGGA TGCAACTGAAGATGACATGCTTGCGAGGACCTTTAGCAGAGGGAGCTACCAGGATAGTTTAAGGGCTTCCATCCGGCAAC GCTCCAAGTCTCAGCTTTCTTACCTGGTGCACGAACCTCCATTAGCTGTTGTAGATCATAAGTCTACCTATGAAGAAGAT AGAAAGGACAAGGACATTCCTGTGCAGGAAGAAGTTGAACCTGCCCCAGTTAGGAGGATTCTGAAATTCAGTGCTCCAGA

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AGATTCTTGGGACTTTTTCAATTCCTGATAAAGAGGAACAAAGGTCACAGATCAATGGTGTGTGCCTACTTTTTGTAGCA ATGGGCTGTGTATCTCTTTTCACCCAATTTCTACAGGGATATGCCTTTGCTAAATCTGGGGAGCTCCTAACAAAAAGGCT ACGTAAATTTGGTTTCAGGGCAATGCTGGGGCAAGATATTGCCTGGTTTGATGACCTCAGAAATAGCCCTGGAGCATTGA CAACAAGACTTGCTACAGATGCTTCCCAAGTTCAAGGGGCTGCCGGCTCTCAGATCGGGATGATAGTCAATTCCTTCACT AACGTCACTGTGGCCATGATCATTGCCTTCTCTTTAGCTGGAAGCTGAGCCTGGTCATCTTGTGCTTCTTCCCCTTCTT GGCTTTATCAGGAGCCACACAGACCAGGATGTTGACAGGATTTGCCTCTCGAGATAAGCAGGCCCTGGAGATGGTGGGAC AGATTACAAATGAAGCCCTCAGTAACATCCGCACTGTTGCTGGAATTGGAAAGGAGAGGCGGTTCATTGAAGCACTTGAG ACTGAGCTGGAGAAGCCCTTCAAGACAGCCATTCAGAAAGCCAATATTTACGGATTCTGCTTTGCCTTTGCCCAGTGCAT CATGTTTATTGCGAATTCTGCTTCCTACAGATATGGAGGTTACTTAATCTCCAATGAGGGGCTCCATTTCAGCTATGTGT TCAGGGTGATCTCTGCAGTTGTACTGAGTGCAACAGCTCTTGGAAGAGCCTTCTCTTACACCCCAAGTTATGCAAAAGCT AAAATATCAGCTGCACGCTTTTTTCAACTGCTGGACCGACAACCCCCAATCAGTGTATACAATACTGCAGGTGAAAAATG GGACAACTTCCAGGGGAAGATTGATTTTGTTGATTGTAAATTTACATATCCTTCTCGACCTGACTCGCAAGTTCTGAATG GTCTCTCAGTGTCGATTAGTCCAGGGCAGACACTGGCGTTTGTTGGGAGCAGTGGATGTGGCAAAAGCACTAGCATTCAG CCTCCGCTCAAACATTGGAATTGTTTCCCAGGAACCAGTGTTGTTTGCCTGTAGCATAATGGACAATATCAAGTATGGAG ACAACACCAAAGAAATTCCCATGGAAAGAGTCATAGCAGCTGCAAAACAGGCTCAGCTGCATGATTTTGTCATGTCACTC CCAGAGAAATATGAAACTAACGTTGGGTCCCAGGGGTCTCAACTCTCTAGAGGGGAGAAACAACGCATTGCTATTGCTCG GGCCATTGTACGAGATCCTAAAATCTTGCTACTAGATGAAGCCACTTCTGCCTTAGACACAGAAAGTGAAAAGACGGTGC AGGTTGCTCTAGACAAGGCCAGAGAGGGTCGGACCTGCATTGTCATTGCCCATCGCTTGTCCACCATCCAGAACGCGGAT ATCATTGCTGTCATGGCACAGGGGGTGGTGATTGAAAAGGGGACCCATGAAGAACTGATGGCCCAAAAAGGAGCCTACTA CAAACTAGTCACCACTGGATCCCCCATCAGTTGAGACCCAGCTTTCTTGTACAAAGTGGTGATTGGTACCGAGCTCGGAT GGTGCCACTCCCACTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGG GGGTGGGGTGGGGCAGGACAGCAAGGGGGAGTTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGG CTTCTGAGGCGGAAAGAACCAGCTGGGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGCT GTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTTCT CGCCACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACC TCGACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACG AACCATAGTCCCGCCCTAACTCCGCCCATCCCGCCCTAACTCCGCCCATTCTCCGCCCCATGGCTGAC TAATTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGA GGCCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCA TCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAGTTGACCAGTGCCGTTCCGGT ACTTCGCCGGTGTGGTCCGGGACGACGTGACCCTGTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGGACAACACCCTG GCCTGGGTGTGGGTGCGGGCCTGGACGAGCTGTACGCCGAGTGGTCGGAGGTCGTGTCCACGAACTTCCGGGACGCCTC ACTTCGTGGCCGAGGAGCAGGACTGACACGTGCTACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTC GGAATCGTTTTCCGGGACGCCGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCCAACTT

GTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATTTTTTCACTGCATT TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTG TGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCG AGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAAGGCCAGGAACCGTAAAAAAGGCCGCGTTGC TGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACA GGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATA $\tt CCTGTCCGCCTTCCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCG$ TTCGCTCCAAGCTGGGCTGTGCACGAACCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAG TCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGG TGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGC ${\tt CGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAA}$ GTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCA GCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATC AGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGC TTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAAGCGGTTAGCTCCTTCG GTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACT GTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACC GAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAAC GTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGA TCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAAATGCCGCAAAAAAGGGAATAAG GGCGACACGGAAATGTTGAATACTCATACTCTTTCTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGA GCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGAC GTC

Fig. 11

GACGGATCGGGAGATCTCCCGATCCCCTATGGTCGACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTAT $\tt CTGCTCCCTGCTTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACAACAAGGCAAGGCTTGACCGA$ ${\tt GATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCCATATATGGAGTTCCGCGTTACATAA}$ AACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGT ATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTA TGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAA AAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAG GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAG GGAGACCCAAGCTGGCTAGCAGTCCAGGAATCATGCTGGAGAAGTTCTGCAACTCTACTTTTTGGAATTCCTCATTCCTG GACAGTCCGGAGGCAGACCTGCCACTTTGTTTTGAGCAAACTGTTCTGGTGTGGATTCCCTTGGGCTTCCTATGGCTCCT GGCCCCTGGCAGCTTCTCCACGTGTATAAATCCAGGACCAAGAGATCCTCTACCACCAAACTCTATCTTGCTAAGCAGG TATTCGTTGGTTTTCTTCTTATTCTAGCAGCCATAGAGCTCGCCCTTGTACTCACAGAAGACTCTGGACAAGCCACAGTC GTGTGTACAGAAAAACTCCTGGTTCCTGTCCCTATTCTGGATTCTCTGATACTCTGTGGCACTTTCCAATTTCAGACTC $\tt CTGATCCTGATCTTTTCAGCATTTTCAGAAAATAATGAGTCATCAAATAATCCATCATCCATAGCTTCATTCCTGAGTAG$ CATTACCTACAGCTGGTATGACAGCATCATTCTGAAAGGCTACAAGCGTCCTCTGACACTCGAGGATGTCTGGGAAGTTG CTCCAGAGACGCCAGGAGAAGAGCTCCCAGCAGAACTCTGGAGCCAGGCTGCCTGGCTTGAACAAGAATCAGAGTCAAAG TGATGAAGGCTCTGTTCAAAACTTTCTACATGGTGCTCCTGAAATCATTCCTACTGAAGCTAGTGAATGACATCTTCACG TTTGTGAGTCCTCAGCTGCTGAAATTGCTGATCTCCTTTGCAAGTGACCGTGACACATATTTGTGGATTGGATATCTCTG TGCAATCCTCTTATTCACTGCGGCTCTCATTCAGTCTTTCTGCCTTCAGTGTTTATTTCCAACTGTGCTTCAAGCTGGGTG GTTGGAGAAACAGTGAACCTGATGTCTGTGGATGCCCAGAAGCTCATGGATGTGACCAACTTCATGCACATGCTGTGGTC AAGTGTTCTACAGATTGTCTTATCTATCTTCCTATGGAGAGAGTTGGGGACCCTCAGTCTTAGCAGGTGTTGGGGTGA TGGTGCTTGTAATCCCAATTAATGCGATACTGTCCACCAAGAGTAAGACCATTCAGGTCAAAAATATGAAGAATAAAGAC CCAAGTACAAAACCTCCGGAAGAAAGAGCTCAAGAACCTGCTGGCCTTTAGTCAACTACAGTGTGTAATAATATTCGTCT TCCAGTTAACTCCAGTCCTGGTATCTGTGGTCACATTTTCTGTTTATGTCCTGGTGGATAGCAACAATATTTTGGATGCA CAAAAGGCCTTCACCTCCATTACCCTCTTCAATATCCTGCGCTTTCCCCTGAGCATGCTTCCCATGATGATCTCCTCCAT GCTCCAGGCCAGTGTTTCCACAGAGCGGCTAGAGAAGTACTTGGGAGGGGGATGACTTGGACACATCTGCCATTCGACATG ACTGCAATTTTGACAAAGCCATGCAGTTTTCTGAGGCCTCCTTTACCTGGGAACATGATTCGGAAGCCACAGTCCGAGAT $\tt GTGAACCTGGACATTATGGCAGGCCAACTTGTGGCTGTGATAGGCCCTGTCGGCAAATCCTCCTTGATATCAGC$ ${\tt CATGCTGGGAGAAATGTCCACGGGCACATCACCATCAAGGGCACCACTGCCTATGTCCCACAGCAGTCCTGGA}$ TTCAGAATGGCACCATAAAGGACAACATCCTTTTTGGAACAGGTTTAATGAAAAGAGGTACCAGCAAGTACTGGAGGCC

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 ${\tt CAGTGGATGCTCATGTAGGAAAACATATTTTAATAAGGTCTTGGGCCCCAATGGCCTGTTGAAAGGCAAGACTCGACTC}$ TTGGTTACACATAGCATGCACTTTCTTCCTCAAGTGGATGAGATTGTAGTTCTGGGGAATGGAACAATTGTAGAGAAAGG ATCCTACAGTGCTCTCCTGGCCAAAAAAGGAGAGTTTGCTAAGAATCTGAAGACATTTCTAAGACATACAGGCCCTGAAG AGGAAGCCACAGTCCATGATGGCAGTGAAGAAGAAGACGATGACTATGGGCTGATATCCAGTGTGGAAGAGATCCCCGAAAACTAATTAAGAAGGAATTCATAGAAACTGGAAAGGTGAAGTTCTCCATCTACCTGGAGTACCTACAAGCAÁTAGGATTG $\tt TTTTCGATATTCTTCATCATCCTTGCGTTTGTGATGAATTCTGTGGCTTTATTGGATCCAACCTCTGGCTCAGTGCTTG$ GACCAGTGACTCTAAAATCTTCAATAGCACCGACTATCCAGCATCTCAGAGGGACATGAGAGTTGGAGTCTACGGAGCTC TGGGATTAGCCCAAGGTATATTTGTGTTCATAGCACATTTCTGGAGTGCCTTTGGTTTCGTCCATGCATCAAATATCTTG $\tt CACAAGCAACTGCTGAACAATATCCTTCGAGCACCTATGAGATTTTTTGACACAACACCCCACAGGCCGGATTGTGAACAG$ GTTTGCCGGCGATATTTCCACAGTGGATGACACCCTGCCTCAGTCCTTGCGCAGCTGGATTACATGCTTCCTGGGGATAA GTTCAGATGTTTTATGTGTCTACCTCCCGCCAGCTGAGGCGTCTGGACTCTGTCACCAGGTCCCCAATCTACTCTCACTT CAGCGAGACCGTATCAGGTTTGCCAGTTATCCGTGCCTTTGAGCACCAGCGGTTTCTGAAACACAATGAGGTGAGGA ${\tt CAATGCACTCAATATCACACAAACCCTGAACTGGCTGGTGAGGATGACATCAGAAATAGAGACCAACATTGTGGCTGTTG}$ AGCGAATAACTGAGTACAAAAAGTGGAAAATGAGGCACCCTGGGTGACTGATAAGAGGCCTCCGCCAGATTGGCCCAGC AAAGGCAAGATCCAGTTTAACAACTACCAAGTGCGGTACCGACCTGAGCTGGATCTGGTCCTCAGAGGGATCACTTGTGA CATTGGTAGCATGGAGAAGATTGGTGTGGGGGGGGGACAGGAGCTGGAAAGTCATCCCTCACAAACTGCCTCTTCAGAA TCTTAGAGGCTGCCGGTGGTCAGATTATCATTGATGGAGTAGATATTGCTTCCATTGGGCTCCACGACCTCCGAGAGAAG CTGACCATCATCCCCCAGGACCCCATCCTGTTCTCTGGAAGCCTGAGGATGAATCTCGACCCTTTCAACAACTACTCAGA TGAGGAGATTTGGAAGGCCTTGGAGCTGGCTCACCTCAAGTCTTTTGTGGCCAGCCTGCAACTTGGGTTATCCCACGAAG TGACAGAGGCTGGTGGCAACCTGAGCATAGGCCAGAGGCAGCTGCTGTGCCTGGGCAGGGCTCTGCTTCGGAAATCCAAG ATCCTGGTCCTGGATGAGGCCACTGCTGCGGTGGATCTAGAGACAGCCACCATCCAAAACGAGTT CGCCCACTGCACAGTGATCACCATCGCCCACAGGCTGCACACCATCATGGACAGGTGACAAGGTAATGGTCCTAGACAACG ${\tt ATTGAGAATGTGAACAGCACAAAATTCTAGCTTAAGCTTGGTACCGAGCTCGGATCCACTAGTCCAGTGTGGTGGAATTC}$ TGCAGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGTTTAAACCCGCTGATCAGCCTCGACTGTGCCTTC AATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAG GGGGAGGATTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTG GGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGGGGGGTGTGGTGGTTACGCGCAGCGTGACCG ${\tt CTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTT}$ CAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGG TGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTG GACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGGGGATTTCG $\tt CGAGGCCGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCC$ $\tt CGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCATCGGCATAGTATATCGGCATAGTAT$

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GCGGTCGAGTTCTGGACCGACCGGCTCGGGTTCTCCCGGGACTTCGTGGAGGACGACTTCGCCGGTGTGGTCCGGGACGA CGTGACCCTGTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGGACAACACCCTGGCCTGGGTGTGGGTGCGGGCCTGG ACACGTGCTACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCT GGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCCAACTTGTTTATTGCAGCTTATAATGGTTAC AAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCAT GAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTG AGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAAT CGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCG TTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAG AACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAAGGCCGCGTTGCTGCGTTTTTCCATAGGCTCCGCCC CCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTC CCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGA AGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCA CGAACCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTAT CGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGG CCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGG AAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTG TGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCA TAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGAGAGGGCTTACCATCTGGCCCCAGTGCTACAATGATACCG TCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAA GTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTT $\tt CTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATA$ CGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAAACGTTCTTCGGGGCGAAAACTCTCAAG GATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCA GCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTC ATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTA GAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC